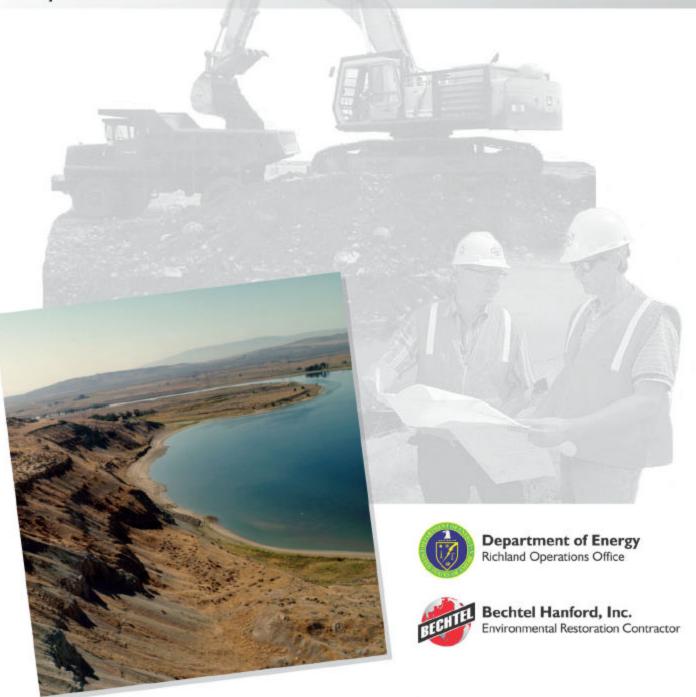
Environmental Management Performance Report

April 2002



Data as of month-end April

TABLE OF CONTENTS

INTRODUCTION	1
SECTION A – EXECUTIVE SUMMARY	2
NOTABLE ACCOMPLISHMENTS	
SAFETY	5
PROCESS IMPROVEMENTS	
MAJOR COMMITMENTS	
PERFORMANCE OBJECTIVES	13
TOTAL ERC COST/SCHEDULE OVERVIEW	
ISSUES (REGULATORY/EXTERNAL/DOE)	17
KEY INTEGRATION ACTIVITIES	17
UPCOMING PLANNED KEY EVENTS	
SECTION B – RIVER CORRIDOR RESTORATION SUMMARY	18
SECTION C – CENTRAL PLATEAU TRANSITION SUMMARY	28
SECTION D – SITE INTEGRATION & INFRASTRUCTURE SUMMARY	35

INTRODUCTION

The monthly Environmental Restoration (ER) Environmental Management Performance Report (EMPR) consists of four sections: Section A - Executive Summary, Section B - River Corridor Restoration, Section C - Central Plateau Transition, and Section D - Site Integration and Infrastructure. All data is current as of April 30, 2002.

Section A – Executive Summary. The Executive Summary begins with a description of notable accomplishments that are considered to have made the greatest contribution toward safe, timely, and cost-effective Hanford Site cleanup. Safety statistics are also included. Major commitments are summarized that encompass *Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement)* milestones and FY02 Environmental Management (EM) corporate performance measures and objectives. Fiscal year-to-date ER Project cost and schedule variance analysis is summarized. Issues that require management and/or regulator attention are addressed along with resolution status. The Key Integration Activities section highlights site activities that cross contractor boundaries, supporting overall Hanford Site goals. The Executive Summary ends with a listing of major upcoming planned key events (90-day look ahead).

Section B – River Corridor Restoration. This section contains more detailed ERC monthly activity information and performance status for the three PBSs within the River Corridor Restoration outcome. These three PBSs consist of RC01 - 100 Area River Corridor Cleanup, RC02 - 300 Area Cleanup, and RC05 - River Corridor Waste Management.

Section C – Central Plateau Transition. This section contains more detailed ERC monthly activity information and performance status for the one PBS within the Central Plateau Transition outcome. This PBS consists of CP01 – 200 Area Remediation.

Section D – Site Integration & Infrastructure. This section contains more detailed ERC monthly activity information and performance status for the two PBSs within the Site Integration and Infrastructure outcome. These two PBSs consist of SS03 – Groundwater Management and Monitoring, and SS04 – Groundwater/Vadose Zone (GW/VZ) Integration.

PBS SC01 – Near Term Stewardship is structured within the Site Stewardship outcome. Due to the minimal FY02 workscope identified for this PBS, SC01 performance data will be included in the Executive Summary cost/schedule overview.

Performance Incentive and Safety information in this report is identified with a green, yellow or red text box used as an indicator of the overall status. Green indicates work or issue resolution is satisfactory and generally meets or exceeds requirements, yellow indicates that significant improvement is required, and red indicates unsatisfactory conditions that require immediate corrective actions.

INTRODUCTION 1

Section A - Executive Summary



River Corridor Restoration



Site Integration & Infrastructure

Data as of month-end April

Central Plateau Transition

SECTION A – EXECUTIVE SUMMARY

Data as of month-end April

NOTABLE ACCOMPLISHMENTS:

General:

Four River Corridor (100 and 300 Area) Hanford Federal Facility Agreement and Consent OrderTri-Party Agreement change packages were approved by the U.S. Department of Energy's (DOE), Richland Operations Office (RL), the U.S. Environmental Protection Agency (EPA), and the Washington State Department of Ecology (Ecology) on April 30. Approval of these change packages marked a significant accomplishment that establishes an accelerated cleanup and facility disposition schedule for the Hanford Site river corridor area. The comment and response document was also completed.

On April 16-17, Bechtel Hanford, Inc. (BHI) hosted a technical exchange with representatives from Bechtel-managed contracts for DOE's Environmental Management (EM) Program. Bechtel representatives presented a wide-ranging list of environmental compliance topics designed to provide a common and comprehensive understanding of best practices, lessons learned, and management optimization approaches for EM sites.

River Corridor Restoration:

Regulator approval was received for backfill of the outfall structure excavations in the 100 B/C Area. Backfill operations began in April, a few weeks ahead of schedule. In the 100 F Area, excavation activities continued at the 1607-F-2 Septic System and 126-F-1 Ash Pit. Excavation of the 116-F-2 Trench plumes was also completed.

A readiness assessment and site walkdown for the Environmental Restoration Disposal Facility (ERDF) staging area were conducted in support of the 300 Area 618-4 Burial Ground remediation. During April, 236 drums were transported to the ERDF waste staging area.

During April, ERDF received 53,619 metric tons (59,105 tons) of waste, for a total of 325,881 metric tons (359,222 tons) received to-date in FY02. A total of 3,186,508 metric tons (3,512,524 tons) have been disposed in ERDF since operations began in July 1996. ERDF Disposal personnel have worked 72 months without a lost-time accident, and the ERDF Transportation team has driven 9,687,701 kilometers (6,019,658 miles) without an at-fault vehicle accident.

The F Reactor fuel storage basin (FSB) fill removal operation was completed on April 24. Progress also continued on the D, DR, and H Reactor interim safe storage (ISS) activities.

100 Area River Corridor surveillance and maintenance (S&M) activities continued through April. The River Corridor herbicide/pesticide bare ground spraying was completed. The 181-KW oil removal and sampling effort in the 100 Area was also completed.

The three River Corridor pump and treat systems operated above the planned 90 percent availability level in April.

Central Plateau Transition:

Process hood scaffold removal was completed at the highly contaminated 233-S Plutonium Concentration Facility. Two standard waste boxes (SWBs) of transuranic (TRU) waste were shipped to the Central Waste Complex (CWC) and four burial boxes were shipped to ERDF.

NOTABLE ACCOMPLISHMENTS continued:

On April 8, the B Plant ventilation system was shut down and isolated to complete the changeout of the two HEPA pre-filters. A full dress mock-up with communication and remote radiation monitoring was conducted to refine the procedure and work practices. Extensive pre-job planning and mock-up training were credited for the significant as low as reasonably achievable (ALARA) reduction.

Ground-penetrating radar (GPR) surveys were completed for the 200-PW-1 pipeline vapor sampling, and spring startup of the 200-PW-1 active soil vapor extraction system was completed.

The public comment review period was completed on April 12 for the 200 Area Central Plateau *Tri-Party Agreement* change packages. The comment and response document is nearing completion.

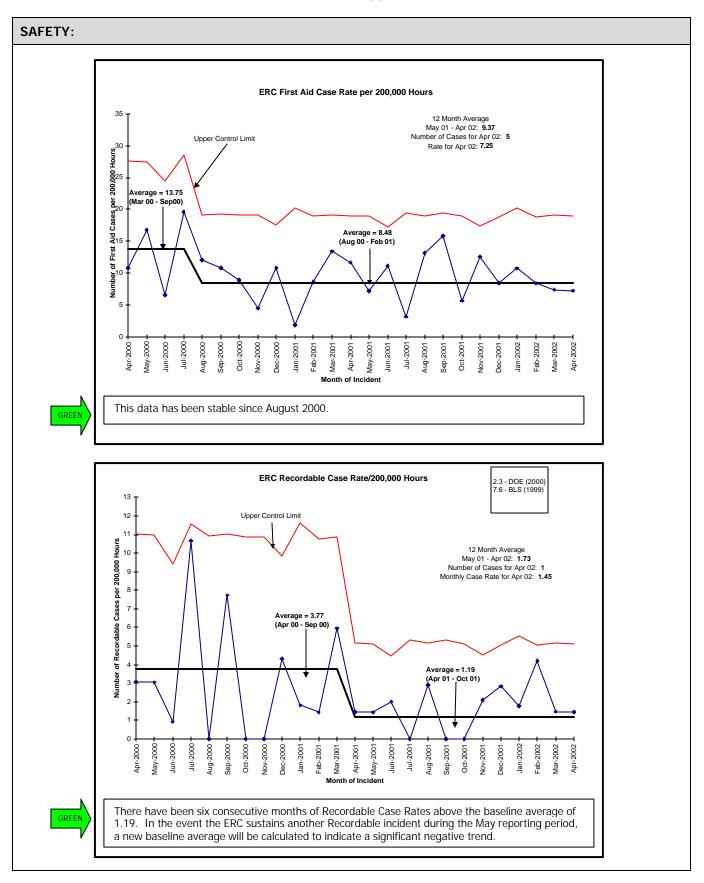
The two Central Plateau pump and treat systems operated above the planned 90 percent availability level in April.

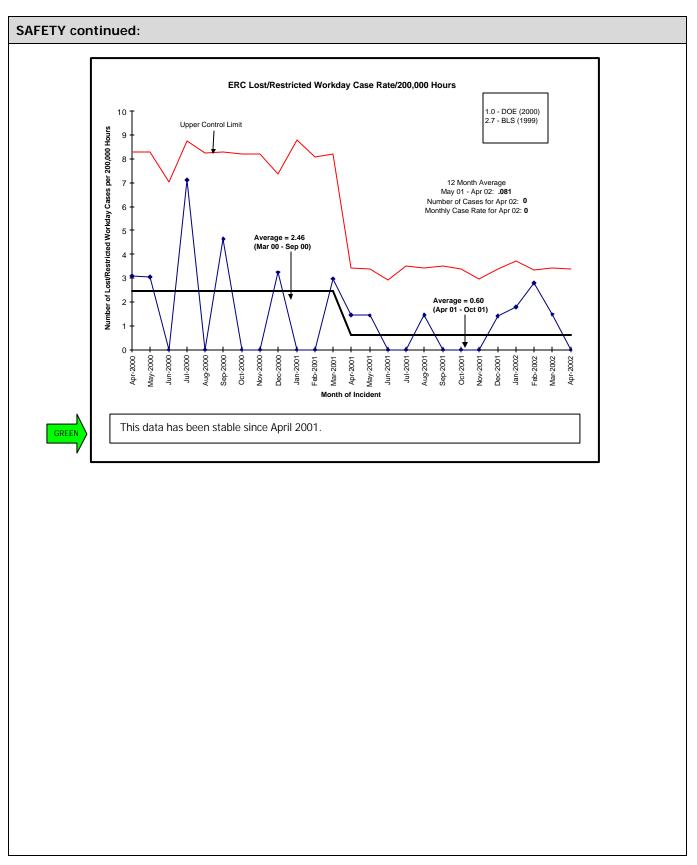
Site Integration and Infrastructure:

The Resource Conservation and Recovery Act of 1976 (RCRA) quarterly report for October-December 2001 was transmitted to RL.

Excavation of the field site was completed and final preparations began for the field experiment as part of the Vadose Zone Transport Field Study.

Workshops were held with the regulators to identify groundwater decisions and to discuss the coordination of groundwater monitoring requirements of the *Comprehensive Environmental Response*, *Compensation*, and *Liability Act of 1980* (CERCLA), RCRA, and *Atomic Energy Act* (AEA).





SAFETY continued:

The following actions have or are being taken by the Environmental Restoration Contractor (ERC) to focus on safety improvements:

- All accidents are thoroughly investigated. Emphasis is placed on causes and corrective actions that
 can be implemented where applicable. Timely discussions are expected to take place in safety
 meetings and plan of the day (POD) meetings. When investigations have been completed, the results
 of each investigation are sent to the Area Superintendents, Field Superintendents, and Supervisors to
 review at the PODs.
- BHI continues to look for trends and consult with corporate and other Bechtel National, Inc. (BNI) contacts for ways to enhance performance.
- The ERC has received approval from RL to set in motion the plans to obtain Voluntary Protection Program (VPP) Star Status recognition.
- The ERC continues to work closely with the Hanford Atomic Metal Trades Council (HAMTC) Safety Representative to resolve safety issues as they arise.
- Senior management continues to meet with small groups of employees in the field to discuss safety and personal commitment to safety.
- The Field Support General Superintendent and Project Safety Manager continue to visit different projects on a regular basis, meet with project team members, and conduct safety walkarounds. Area Superintendents for Decontamination and Decommissioning Projects/233-S, Surveillance, Maintenance, and Transition, and the Groundwater/Vadose Zone Integration Project will be included in these walkarounds and will be visiting projects other than those for which they are responsible. Information from the walkaround is shared with the team and other Field Support personnel. Safety conditions requiring corrective action are assigned to project or support personnel for action and are tracked to closure. This activity is ongoing.
- The safety culture of ERC subcontractors appears to be appropriately positive and improving over the last couple of months as a result of ERC initiative to further clarify safety expectations. As an example, a safety stand-down with all Subcontractor Technical Representatives (STR) and subcontractors was held in April to review several recent events. The purpose of the stand-down was to heighten awareness of the warning signals provided by these events, to appropriately communicate the lessons learned and to ask the subcontractors to carry the safety message back to their work crews. The subcontractors openly participated in this stand-down demonstrating their renewed commitment to accomplish their work safely.
- The ERC has invited "Brown Bag Speakers" to join employees during lunchtime at the 3350 George Washington Way facility to discuss various safety and health topics. Four sessions have been held this year.

SAFETY continued:

	FYTD	Current Period (3/18/02- 4/14/02)	Current Period Comments
First Aid	42	5	(1) strain, (1) puncture, (3) bite/sting
OSHA Recordable	10	1	(1) back strain
Restricted Workday Case	4	0	N/A
Lost Workday Case	1	0	N/A

Status:

- As of April 30, 2002, the ERC has worked approximately 372,000 hours without a lost workday case.
 The last incident occurred on January 29, 2002 and became a lost time on February 11, 2002.
 Continuous employee involvement is being fostered by the Integrated Environmental Safety and
 Health Management System, VPP, labor alliance programs, e-mail communications, and one-on-one
 meetings with employees.
- ERC task teams were established to review oversight of subcontractors and flowdown of
 environmental, safety, and health requirements to subcontractors. A management review of both
 processes was performed. The corrective action plan is complete. Immediate corrective actions are
 now being worked and will be completed on schedule. Long-term corrective actions will provide for
 effective communication of requirements and positive subcontractor oversight. These corrective
 actions are scheduled to be completed by mid-summer.
- A general safety walkthrough of the 1120-N building was conducted on April 4 by the Field Support Area Superintendent and Facilities personnel.
- The ERC has recognized a trend in sprain and strain injuries. Heightened awareness regarding proper lifting techniques, the use of mechanical devices for lifting heavy or awkward loads, proper planning, and increased participation in low-impact stretching exercises prior to engaging in lifting or pulling activities are being utilized to reduce these types of injuries.
- A brown bag speaker session on Terrorism and Counterintelligence was presented by the Senior Counterintelligence Officer with the DOE Headquarters Office of Counterintelligence, assigned to the Richland Operations Office.
- A VPP communication plan has been completed and will be provided to project and office personnel
 during employee safety meetings, POD meetings, and staff meetings. A strategic plan is being
 formulated on conducting a VPP self-assessment later this summer that will provide information
 relative to ERC strengths and weaknesses.

SAFETY continued:

Integrated Environmental Safety and Health Management System (ISMS):

Status:

- A self-assessment was completed for mitigation actions at the UPR-100-F-2 waste site and the three outfall structures at 100 B/C. These sites are adjacent to shoreline areas and require mitigation actions to prevent stormwater runoff from carrying materials to the river. Mitigation actions consisted of erecting silt fences at all sites, and revegetation at the UPR-100-F-2 site. The self-assessment determined that all mitigation actions had been performed as prescribed, and reve getation of the upper shoreline terrace at UPR-100-F-2 was successful. The planted grass is established and actively growing.
- Identified and communicated with the DOE/DOJ "Homeland Defense Equipment Reuse Program," a list of unneeded radiological detection equipment currently being stored in 271-U. With concurrence from BHI management and RL Property Management, arrangements are underway to ship this equipment to Oak Ridge, Tennessee, where it will be deployed for terrorist mitigation.
- Completed an assessment of the Corrective Action Management System. The assessment identified three observations and three designated as unsatisfactory corrected immediately (UCI). The assessment found that projects/functions are not performing "verification of effectiveness of corrective actions" in a timely manner. Although the procedure leaves the time frame and method of verification to the discretion of the project/functional manager, many organizations had not performed "verification of effectiveness" of any corrective actions for the previous year.
- Conducted a focused assessment of three Treatment, Storage, and Disposal units (TSDs) managed by Surveillance/Maintenance & Transition Project slated for transition to Fluor Hanford (FH). The three TSDs were the CX and hexone tanks and the Non-radioactive Dangerous Waste Landfill. The scope of the assessment included training, security and signage, waste analysis plans, inspections, and emergency action plans. The failure to document a monthly inspection resulted in one level II Corrective Action Request (CAR).
- Conducted an assessment of Respiratory Protection that resulted in two CARs and four UCIs. The CARs involved breathing air quality assurance and inconsistent showering after asbestos removal work.
- Completed an assessment of Fire Protection planning document reviews. No deficiencies were noted.
- Screened forty-one self-assessments, eight occurrence reports, nine Quality Services surveillance reports, fifteen corrective action requests, five management walkthroughs, three independent assessments, and two facility representative reports for PAAA compliance determinations.
- Participated in the Ecology annual high water Columbia River inspection as required by the Hanford Site RCRA Permit. No concerns were noted
- BHI's progress continues toward full implementation of the ISMS Performance Objectives, Measures, and Indicators Process (hereafter referred to as metrics) that BHI communicated to RL in document BHI-01550. This progress includes implementation of four of the five Compliance and Oversight metrics including: Agreement Between Scheduled versus Actual Assessments Performed; Number of ES&H Related Noncompliance Identified in Assessments; ES&H Related Trends; Timeliness of resolving ES&H Related Issues. The remaining Compliance and Oversight metric, Effectiveness of Corrective/Preventive Actions, is scheduled for implementation over the next two months. All these measures are specifically designed to gauge ERC performance with regard to our compliance status, ability to self-disclose deficiencies, and to take timely and effective corrective actions.
- In addition, two new metrics were defined during the month that will strengthen the Compliance and Oversight metric set. One of these, Safety Injury/Illness Performance is designed to provide an indication of BHI's overall work injury experience. It uses incidence rates for First Aid, OSHA Recordable, OSHA Restricted, and Lost Time injuries. The second new metric, Effectiveness of Self-Assessments, is specifically designed to gauge the level of conformance of project and functional department assessments to the ERC Self-Assessment process. The metric will measure the completeness and structural quality of those self-assessments. Data generation for these metrics will begin in May.

SAFETY continued:

As mentioned above, BHI's progress continues toward full implementation of the ISMS Metrics. To
date, BHI is collecting data for 17 of the metrics, with data collection for the remaining 5 scheduled to
commence during the next three months. Additionally, the methods/procedures that BHI agreed to
develop to address RL's "opportunities for improvement," and to institutionalize this process were either
drafted or scheduled for development over the same period. A detailed report outlining progress will be
transmitted to RL in early May.

Conduct of Operations: RL Facility Representatives (FR) reported fifteen Lock & Tag issues in three surveillance reports in March. BHI completed an extensive review of their Lock & Tag Program which documented fifteen additional CARs in April, and one occurrence report was generated on a subcontractor lockout/tagout issue.

Status: Action plans have been developed or are in process of being developed for all Lockout/Tagout issues. BHI established an Independent Review Team to review the results, action plans and root cause analysis of BHI's extensive review (surveillance) of the Lockout/Tagout Program. The Independent Review Team presented the results of their review on May 13, which identified several items that could make corrective actions more effective. Based on the Independent Review Team's review, the action plans are being enhanced to include their recommendations.

PROCESS IMPROVEMENTS:

Six Sigma:

Status:

- Implementation of the Six Sigma program across the ERC continued.
- A Six Sigma Yellow Belt Process Improvement summary form was developed for the ERC Yellow Belts to document all "minor" improvements being made in their areas.
- Yellow Belt candidates and the availability for an additional RL Yellow Belt Training session were identified
- The Draft Six Sigma Program Implementation Plan (Rev. 2) was reviewed by other BNI site deployment champions, their comments were resolved, and the issuance of the final document accelerated to May.

Process Improvement Projects (PIPs) and status include:

- Opening discussions were held with RL and other BNI sites on the start up of phase 2 NV/Hanford Waste Acceptance Process PIP (PIP #5).
- The Radiological Work Control Documentation PIP (PIP #6) is finishing up the "Improve" phase and is about 90 percent complete.
- The Waste Management Data Processing Improvement PIP (PIP #7) is in the "Analyze" phase and is about 45 percent complete.
- The Safety Basis Process (PIP #8) PIP team continues to hold bi-weekly teleconferences to track progress and issues related to this effort. Cost data from several sites (Oak Ridge, INEEL, Nevada Test Site, Y12, and Hanford ERC) has been received in support of business case development. At present, this data is being verified and categorized to ensure consistency among all the sites.
- The ERC Monthly Progress Review Process Improvement PIP (PIP #9) business case was completed, the PIP Team established, and the "Measure" phase was initiated.
- The Subcontractor Oversight & Change Control Process Improvement PIP (PIP #10) business case was completed, the PIP Team established, and the "Measure" phase was initiated.
- The Waste Container Handling/Distribution Process continues to be evaluated as a potential PIP candidate.

MAJOR COMMITMENTS:

Tri-Party Agreement Milestones: At the beginning of FY02, 17 *Tri-Party Agreement* milestones were planned for completion during the fiscal year (16 FY02 planned milestones and 1 "to be determined" [TBD] dated milestone). On April 30, four River Corridor *Tri-Party Agreement* change packages were approved, which established one new FY02 milestone and deleted one FY02 milestone. Through April, 15 milestones have been completed; 14 ahead of schedule, and 1 on schedule.

On April 30, the following three milestones were completed. Two of the milestones are outyear milestones completed early.

M-16-03A, Establish Date for Completion of 300 Area Remedial Actions (due June 30) was completed two months ahead of schedule.

M-93-14, Initiate Negotiation of Remaining Surplus Reactor Disposition Schedules (due June 30, 2003) was completed 14 months ahead of schedule.

M-93-15, Complete Negotiation of Remaining Surplus Reactor Disposition Schedules (due December 31, 2003) was completed 20 months ahead of schedule.

On April 10, M-16-03G, Establish an Environmental Restoration Disposal Facility (ERDF) Staging Area that is Ready to Receive Drummed Waste from the 618-4 Burial Ground in Accordance with an ERDF Record of Decision Amendment (due September 30) was completed more than five months ahead of schedule.

With approval of the River Corridor change packages, M-93-12, Issue 105-DR Disposition Competitive Procurement Package (due February 28) was deleted; and M-93-06, Complete Removal Action Work Plan/S&M Plan for B Reactor (due June 30) was established.

The public comment review period closed on April 12 for the Central Plateau draft change packages. Response to comments is being finalized. There are two FY02 milestones being proposed for deletion in these change packages: M-15-40A, Complete U Pond/Z Ditches Cooling Water Group Field Work Through Sample Collection and Analysis (due September 30); and M-15-42B, Submit 200-TW-2 Operable Unit Draft A Remedial Investigation Report to Ecology (due September 30). Central Plateau draft change packages are expected to be approved by June 5.

The regulators agreed to extend the completion date for M-16-27C, "Complete 100-HR-3 Phase III ISRM Barrier Emplacement" (due September 30) to June 30, 2003. A change request is being prepared.

Total Tri-Party Agreement Milestones Due in FY02	17*
Total Planned Through April	11
Total Completed Through April	15

^{*}Includes a "TBD" milestone

Remaining Tri-Party Agreement Milestones to be Completed in FY02	4
Forecast Ahead of Schedule	1
Forecast On Schedule	
Forecast Unrecoverable (change request is being prepared)	1
Proposed to be Deleted	2

MAJOR COMMITMENTS continued:

EM Corporate Performance Measures:

	DWP FY02	FY02 Mgmt Commitments	Current Baseline	Completed YTD
Waste Site Excavations	13	10*	10	5
Technology Deployments	0	3	6	5**

^{*}HQ IPABS currently reporting 12 (HQ change request pending). Performance measure commitments revised due to formal funding guidance received from RL in January and required project rebaselining.

PERFORMANCE OBJECTIVES:

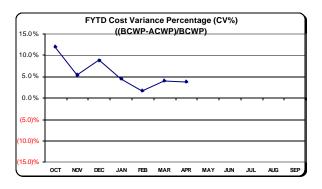
Comprehensive performance incentives are noted below. Specific River Corridor and Central Plateau performance measures are identified in the following report sections.

	Comprehensive Measure	Fee Allocation	Task	Status
GREEN	Safety	Negative fee only up to 50% of fee available for this PI.	Protect worker safety and health, public safety and health, and the environment.	RL formally transmitted FY02 PIs to BHI on 4/30/02.
GREEN	Financial Excellence	Incentive fee up to 20% of fee available for this PI.	The Contractor shall fulfill its contractual obligation in a fiscally responsible manner.	RL formally transmitted FY02 PIs to BHI on 4/30/02.
GREEN	Effective Leadership	Incentive fee up to 30% of fee available for this PI.	Provide corporate leadership to improve management effectiveness, collaborate and participate proactively with our customers, value workers, and provide a supportive environment.	RL formally transmitted FY02 PIs to BHI on 4/30/02.
GREEN	Transition Activities	Incentive fee up to 50% of fee available for this PI.	Plan for and aggressively support a seamless transition of work from BHI to FH and from BHI to the new River Corridor Contractor.	RL formally transmitted FY02 PIs to BHI on 4/30/02.

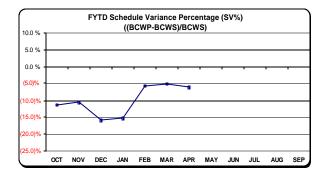
^{**}HQ IPABS was not updated with reconciliation data provided in January 2002. Therefore, IPABS will not show any deployments completed.

TOTAL ERC COST/SCHEDULE OVERVIEW:

FY02 ER PERFORMANCE SUMMARY FYTD APRIL 2002 (\$K)



	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	EAC
	001	NOV	DEC		CURRENT		AFR	IVIAT	JUN	JUL	AUG	JEF	EAC
ACWP	10,237	12,390	11,786	13,451	13,111	14,424	13,387						
BCWP	11,635	12,272	13,862	12,378	11,904	16,591	13,727						
	FISCAL YEAR TO DATE												
ACWP	10,237	22,627	34,413	47,864	60,975	75,399	88,786						
BCWP	11,635	23,907	37,769	50,147	62,050	78,643	92,367						
CV	1,398	1,280	3,356	2,282	1,075	3,244	3,581						
CV%	12.0%	5.4%	8.9%	4.6%	1.7%	4.1%	3.9%						
EAC (Cumulative)	10,237	22,627	34,413	47,864	60,975	75,399	88,786	105,832	124,325	132,880	141,788	153,845	153,892



	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	10,994	11,433	14,984	13,383	12,125	15,162	12,865	12,486	13,558	11,837	12,074	14,835
DWP (Accum)	10,994	22,427	37,411	50,794	62,919	78,081	90,946	103,432	116,990	128,827	140,901	155,736
				CUR	RENT PER	IOD						
BCWS	13,121	13,631	18,145	14,309	6,629	17,063	15,535	14,625	15,459	8,109	8,320	11,034
BCWP	11,635	12,272	13,862	12,378	11,904	16,591	13,727					
				FISCA	L YEAR TO	DATE						
BCWS	13,121	26,752	44,897	59,206	65,835	82,897	98,433	113,057	128,516	136,625	144,945	155,979
BCWP	11,635	23,907	37,769	50,147	62,050	78,643	92,367					
sv	(1,486)	(2,845)	(7,128)	(9,060)	(3,785)	(4,254)	(6,066)					
SV%	-11.3%	-10.6%	-15.9%	-15.3%	-5.7%	-5.1%	-6.2%					

TOTAL ERC COST/SCHEDULE OVERVIEW continued:

FY02 ER PBS PERFORMANCE SUMMARY FYTD APRIL 2002 (\$K)

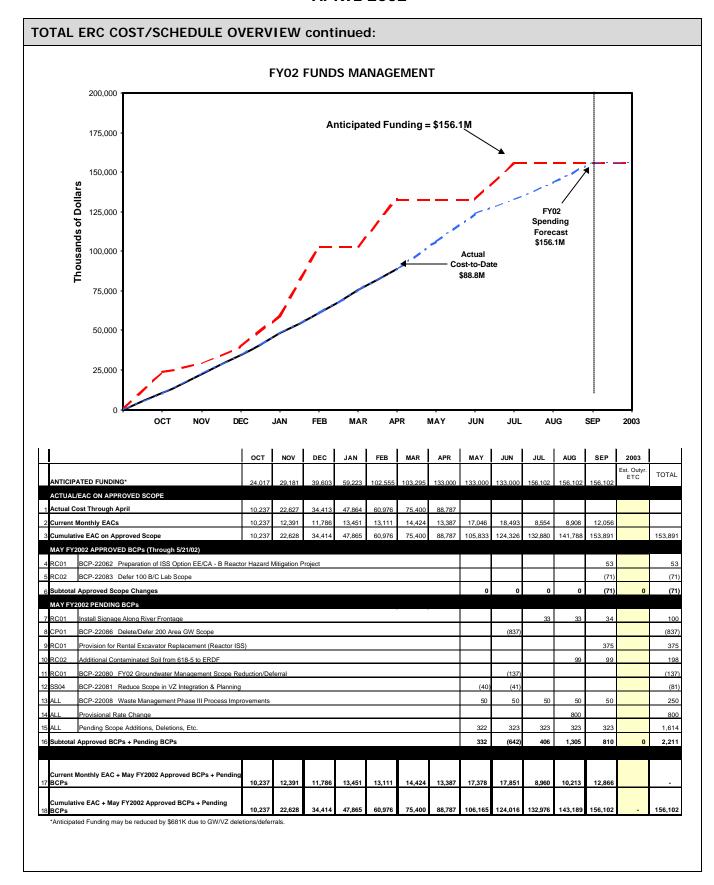
						Y	D	Υ	TD	
	FY02 DWP	CURRENT		FYTD		SCHEDULE	VARIANCE	COST V	ARIANCE	
	BCWS	BCWS	BCWS	BCWP	ACWP	\$	%	\$	%	EAC
RC01	68,776	70,588	44,496	41,450	40,180	-3,046	-6.8%	1,270	3.1%	70,875
RC02	9,444	10,336	3,816	3,304	3,383	-512	-13.4%	-79	-2.4%	10,327
RC05	24,259	28,011	14,764	14,533	14,166	-231	-1.6%	367	25%	27,853
RCR-Subtotal	102,479	108,935	63,076	59,287	57,729	-3,789	-6.0%	1,558	26%	109,055
			,		,	•	,		•	
CP01	32,663	26,681	19,972	18,828	17,399	-1,144	-5.7%	1,429	7.6%	24,957
CPT-Subtotal	32,663	26,681	19,972	18,828	17,399	-1,144	-5.7%	1,429	7.6%	24,957
			,		,	•	,		•	
SS03	17,141	12,383	9,444	8,968	8,585	-476	-5.0%	383	4.3%	12,187
SS04	3,382	7,901	5,925	5,268	5,061	-657	-11.1%	207	3.9%	7,616
SI&I-Subtotal	20,523	20,284	15,369	14,236	13,646	-1,133	-7.4%	590	4.1%	19,803
	•							-		
SC01	71	79	16	16	12	0	0.0%	4	25.0%	77
SS-Subtotal	71	79	16	16	12	0	0.0%	4	25.0%	77
	-	-	•	•	•	-				
ERC TOTAL	155,736	155,979	98,433	92,367	88,786	-6,066	-6.2%	3,581	3.9%	153,892

Schedule Variance Summary:

Through April, the ER Project is \$6.1M (-6.2%) behind schedule. The negative schedule variance is attributed to delays in subcontractor key document submittals for DR Reactor safe storage enclosure (SSE), remedial action at 618-4 Burial Ground, 200 Area Geoprobe® rod extraction, groundwater operable unit resin procurement, GW/VZ System Assessment Capability (SAC) system testing and Science and Technology (S&T) efforts, and discovery of spent fuel elements at the F Reactor FSB. No significant impacts are expected to result.

Cost Variance Summary:

At the end of April, the ER Project had performed \$92.4M worth of work, at a cost of \$88.8M. This results in a favorable cost variance of \$3.6M (+3.9%). The positive cost variance is attributed to lower labor and sampling costs at 100 F and 100 B/C remediation sites, labor savings at the 233-S facility decommissioning project, herbicide application and 100 Area surveillance labor savings, and technology deployment savings at U Pond.



ISSUES	(REGIII	ATORY.	/EXTERNAL	/DOF)	
IJJULJ	(KLGUL	AIORIA	/ LAILRINAL	/ DOL /	

See individual Outcome sections.

KEY INTEGRATION ACTIVITIES:

Central Plateau Transition Plan implementation continued with FH holding employee interviews from April 15 through April 24. Employment offers were sent April 29, with response required by May 10.

Project and functional discussions and information exchange were ongoing. Property lists were reviewed and walkdowns started. Planning was initiated for the early June 3 transition of B Plant and PUREX.

BHI submitted the River Corridor Transition Plan, Rev. 0 (BHI-01619) to RL on April 25.

UPCOMING PLANNED KEY EVENTS:

River Corridor Restoration:

Tri-Party Agreement Milestone M-93-06, Complete Removal Action Work Plan/S&M Plan for B Reactor, due June 30.

Central Plateau Transition:

The tentative agreement for the Central Plateau (200 Area) negotiations (M-13, M-15, M-16, M-20 milestones) was completed and approved by the Tri-Parties on February 21. The public comment review period closed on April 12, and a response to comments document is being finalized. Final approval of proposed changes is expected by June 5, 2002.

Section B - River Corridor Restoration

RC01 - 100 Area River Corridor Cleanup RC02 - 300 Area Cleanup RC05 - River Corridor Waste Management

Concrete Slab Removal at DR Reactor



D Reactor Transfer Bay Demolition







Excavator Loading a 60-inch Gate Valve (100 B/C Area) onto a Flat for Disposal at ERDF

SECTION B – RIVER CORRIDOR RESTORATION

Data as of month-end April

ACCOMPLISHMENTS:

100 Area River Corridor Cleanup (RC01):

Regulator approval was received on the backfill concurrence package for the outfall structure excavations in the 100 B/C Area. Backfill operations began in April. A baseline change proposal (BCP) was approved for excavation of an additional 27,216 metric tons (30,000 tons) of plumes, which has been identified as stretch tons in the 100 B/C Area. Excavation of two plumes (pipelines 12 and 13) commenced in April.

In the 100 F Area, excavation activities continued at the 1607-F-2 Septic System and 126-F-1 Ash Pit. Variance sampling has been completed for 40 percent of the 126-F-1 Ash Pit. Excavation of the 116-F-2 Trench plumes was completed. Overburden removal activities were completed at the 1.1-meter (42-inch) concrete pipeline south of the retention basin. A BCP was approved to add an additional 9,072 metric tons (10,000 tons) to the remediation stretch goal for FY02.

Three trenches were excavated in assumed clean areas at each of the 118-F-1 and 118-F-6 Burial Grounds in support of the 100 Area Burial Ground design effort. Undisturbed native soil was encountered in all trenches, confirming the previous geophysical data. Field screening for radiation and organics indicated no contamination was present. Soil samples were collected at the bottom of all six trenches. Excavation of test trenches at the 118-F-5 Burial Ground is pending conclusion of the Washington State Historic Preservation Office review.

In the 100 N Area, airborne radioactivity concentrations within the 116-N-1 Trench reached 10 percent of a derived air concentration during excavation activities. Initial analysis indicates that concentrations are rising in the last trench zone. Additional controls are being implemented (e.g., lapel air samplers and additional dust suppression at the dig face) to mitigate the airborne concentrations. Excavation and loadout of the contaminated material in the 116-N-1 Trench will continue to be the primary activity through May.

At D Reactor, below-grade pourbacks in Area 2 (valve pit/supply fan room area) and Area 3 (fan rooms/exhaust plenum areas) were completed.

The F Reactor FSB fill removal operation was completed on April 24. Through April, a total of 20 hot spot investigations resulted in shipping 11 pieces of intact spent nuclear fuel (SNF) to K Basin for storage and disposition. No TRU waste was discovered, and approximately 0.1 cubic meters (4 cubic feet) of activated steel and material were retrieved that will require special (shielded) disposal at ERDF. Excavation of the east and west transfer pits was also completed.

At the H Reactor ISS Project, demolition of the above-grade transfer bay was completed on April 25.

100 Area River Corridor S&M activities continued through April. The River Corridor herbicide/pesticide bare ground spraying was completed. The 181-KW oil removal and sampling effort in the 100 Area was completed. The structural inspection of the 190-KW expansion joint was also completed, and no further deterioration was noted. RL/regulator reviews were completed for the B Reactor hazards mitigation removal action work plan.

The Fiscal Year 2001 Annual Summary Report for the In-Situ Redox Manipulation Operations was issued.

In the 100 Area, the three groundwater pump and treat systems (100-HR-3, 100-KR-4, and 100-NR-2) operated above the planned 90 percent availability levels in April, processing approximately 52.5 million liters of groundwater and removing approximately 32.4 kilograms of chromium and 0.1 curie of strontium. Since system inception, these three pump and treat systems have processed over 3.4 billion liters of groundwater, removing approximately 295 kilograms of chromium and 1.2 curies of strontium.

ACCOMPLISHMENTS continued:

300 Area Cleanup (RC02):

A readiness assessment in support of the 300 Area 618-4 Burial Ground remediation was conducted on April 16. Subsequent to the review, a site walkdown was conducted and work was initiated. A notice to proceed was issued to package the above-ground polyethylene overpacks in B-25 boxes. The first shipment to the ERDF waste staging area began on April 17. 12 oxide drums and 224 depleted uranium drums were transported to the ERDF staging area during April.

A BCP was approved to develop a cost estimate to change land use from industrial to residential outside the 300 Area fence. The estimate was requested by RL to facilitate discussions with the Hanford Advisory Board (HAB).

River Corridor Waste Management (RC05):

During April, ERDF received 53,619 metric tons (59,105 tons) of waste, for a total of 325,881 metric tons (359,222 tons) received to-date in FY02. A total of 3,186,508 metric tons (3,512,524 tons) have been disposed in ERDF since operations began in July 1996. ERDF Disposal personnel have worked 72 months without a lost-time accident, and the ERDF Transportation team has driven 9,687,701 kilometers (6,019,658 miles) without an at-fault vehicle accident.

A readiness walkdown and checklist review of the ERDF waste staging area was completed on April 10. This activity marked the completion of *Tri-Party Agreement* Milestone M-16-03G (due September 30) more than five months ahead of schedule.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS):

TPA Milestone	Description	Due Date	(F)/(A) Date
M-16-00F	Establish Date for Completion of All 100 Area Remedial Actions	12/31/01	12/31/01 (A)
M-16-27B	Complete 100-HR-3 Phase II, ISRM Barrier Emplacement (Planning, Well Installation, and Barrier Emplacement)	12/31/01	11/20/01 (A)
M-93-12*	Issue 105-DR Disposition Competitive Procurement Package for Ascertaining the Most Effective and Efficient Approach to FEIS ROD Selected Alternative Implementation ()	2/28/02	Deleted
M-16-26B	Complete Remediation and Backfill of 51 Liquid Waste Sites in the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, and 100-HR-1 Operable Units and Process Effluent Pipelines in the 100-DR-1, 100-DR-2, and 100-HR-1 OUs. Complete Revegetation of 36 Liquid Waste Sites in the 100-BC-1, 100-DR-1, 100-DR-2, and 100-HR-1 OUs as Defined in RDR/RAWP for the 100 Area	3/31/02	12/11/01 (A)
M16-41B	Submit Closeout Verification Package for JA Jones 1 and 600-23 Waste Sites for EPA Approval	3/31/02	11/30/01 (A)
M-16-03A	Establish Date for Completion of 300 Area Remedial Actions	6/30/02	4/30/02 (A)
M-93-06	Complete Removal Action Work Plan/S&M Plan for B Reactor	6/30/02	6/14/02 (F)
M-16-03G	Establish an Environmental Restoration Disposal Facility (ERDF) Staging Area that is Ready to Receive Drummed Waste from the 618-4 Burial Ground in Accordance with an ERDF Record of Decision Amendment	9/30/02	4/10/02 (A)
M-16-27C**	Complete 100-HR-3 Phase III, ISRM Barrier Emplacement (Planning, Well Installation, and Barrier Emplacement)	9/30/02	6/30/03 (F)
M-16-41C	Complete Backfill and Regrading of JA Jones 1 and 600-23. Revegetation will occur during the following planting season	TBD	12/14/01 (A)

^{*}The River Corridor change packages were approved on April 30, which deleted M-93-12.

^{**}Ecology has agreed to extend the completion date to June 30, 2003. An ESD and change request are being prepared.

PERFORMANCE OBJECTIVES: Task (RL formally transmitted FY02 PIs on 4/30/02) PΙ Process 546,000 tons of contaminated soils and debris from as many as 20 targeted waste sites in the Columbia River Corridor and dispose of in the ERDF by 9/30/02. Construct drum staging area at ERDF and complete removal of all drums as defined in the FY02 DWP from 618-4 to ERDF staging area by 9/30/02. *River Corridor Remedial Action: GREEN Reduce Risk to Columbia River from Groundwater Contamination Submit CVPs for 19 waste sites to DOE for transmittal to the regulators by 9/30/02. Process 70,000 additional tons (for a total of 616,000 tons) of contaminated soils and debris from as many as 20 targeted waste sites and associated plumes in the Columbia River Corridor and dispose of in the ERDF by 9/30/02. (Stretch) Conduct ISS activities at D Reactor. Conduct ISS activities at DR Reactor. GREEN **Reactor Interim Safe Storage: Conduct FY01 carryover ISS activities at F Reactor. Disposition Surplus Building Conduct ISS activities at H Reactor. Conduct ISS activities at F Reactor. *CV <5.0%; SV% <7.5% measured at the grouped RC01. RC02, RC05 PBS level. **CV <5.0%: SV% <7.5% measured at the RC01 PBS level.

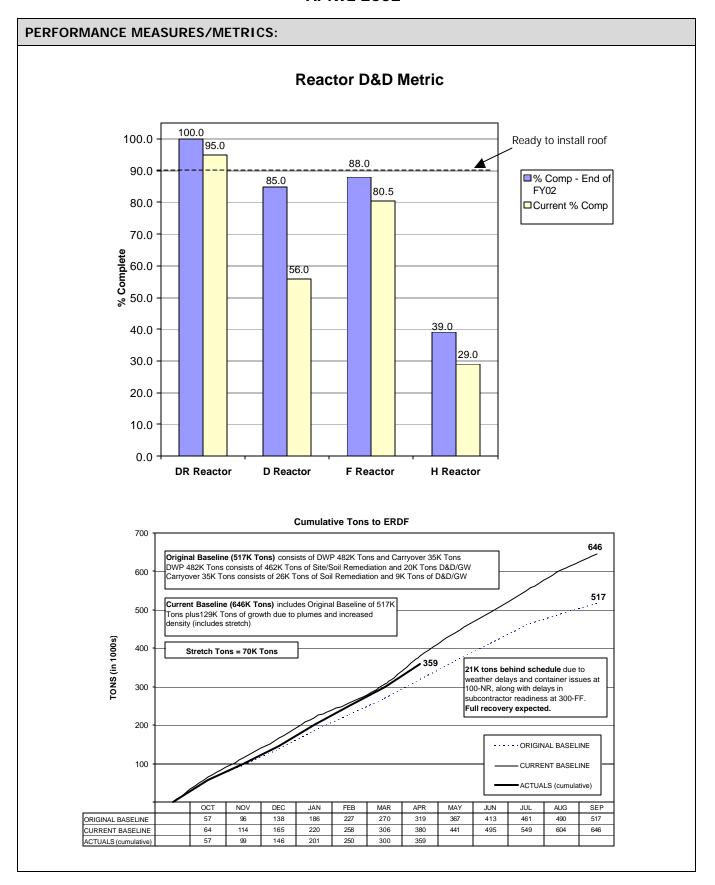
PERFORMANCE MEASURES/METRICS:

FY02 Performance Measures Summary:

PBS	Description	FY02 Mgmt Commit	Current Baseline Due Date	Forecast (F) Actual (A) Date
RC01	Complete Excavation – 100-F-2	X	11/30/01	1/26/02 (A)
RC01	Complete Excavation – 100-F-15	Х	5/1/02	12/7/01 (A)
RC01	Complete Excavation – 100-F-19 (Segment 2)	Х	8/12/02	8/12/02 (F)
RC01	Complete Excavation – 116-F-2	Х	10/12/01	4/17/02 (A)
RC01	Complete Excavation – 126-F-1	Х	6/5/02	5/31/02 (F)
RC01	Complete Excavation - 116-F-14	Х	11/30/01	12/13/01 (A)
RC01	Complete Excavation - 116-F-9	Х	11/26/01	4/15/02 (A)
RC01	Complete Excavation - 1607-F-2	Х	7/30/02	5/15/02 (F)
RC01	Complete Excavation – 116-N-3	Х	1/3/02	5/31/02 (F)**
RC02	Complete Excavation – 618-4	Х	8/15/02	8/15/02 (F)
	Total	10*	10	5 (F) 5 (A)

^{*}HQ IPABS currently reporting 12 (HQ change request pending). Performance measure commitments revised due to formal funding guidance received from RL in January and required project rebaselining.

^{**}Excavation of four waste sites was reported completed in the February report. Final sampling results indicated contamination was still present at 116-N-3 that required further excavation.



STRETCH AND SUPERSTRETCH GOALS:

FY02 Remedial Action Stretch Goals	Approved Tons (K)
Process 70,000 additional tons (for a total of 616,000 tons) of contaminated soils and debris from as many as 20 targeted waste sites and associated plumes in the Columbia River Corridor and dispose of in the ERDF by 9/30/02.	70.0K
TOTAL Remedial Action Stretch Goals:	70.0K

OUTCOME STATUS (COST/SCHEDULE):

Schedule:

River Corridor Restoration	BCWS	BCWP	Variance
River corridor Restoration	\$K	\$K	\$K
RC01			
100 Area River Corridor Cleanup	44,496	41,450	(3,046)
RC02			
300 Area Cleanup	3,816	3,304	(512)
RC05			
River Corridor Waste Management	14,764	14,533	(231)
TOTAL River Corridor Restoration:	63,076	59,287	(3,789)

PBS-RC01 – 100 Area River Corridor Cleanup

Schedule Variance = (\$3046K); (6.8%) [Last Month: (\$2533K); (6.7%)]

Cause: Demolition of DR Reactor SSE behind schedule due to delays in subcontractor key document submittals.

Resolution: Key documents completed, and demolition initiated the end of January. Subcontract has been modified to extend completion date of DR Reactor SSE.

Cause: Discovery of spent fuel elements at F Reactor FSB, equipment downtime, and excessive winds.

Resolution: Recovery schedule implemented.

Cause: 100-HR-3 and 100-KR resin delivery behind schedule due to late shipment of polymer to create resin; CERCLA upgrade subcontractor behind schedule.

Resolution: Resin shipment expected in June; recovery of CERCLA upgrade expected by end of May.

Cause: Sampling and analysis activities at 100 B/C Area delayed due to discovery of plumes.

Resolution: Corrective action is being evaluated including impacts as a result of identified plumes and increased contaminated material.

OUTCOME STATUS (COST/SCHEDULE) continued:

PBS-RC02 - 300 Area Cleanup

Schedule Variance = (\$512K); (13.4%) [Last Month: (\$172K); (6.0%)]

Cause: Remedial action activities at 618-4 Burial Ground behind schedule due to awaiting completion of subcontractor's submittals and readiness review.

Resolution: Remediation was initiated and full recovery is expected by end of July.

PBS-RC05 - River Corridor Waste Management

Schedule Variance = (\$231K); (1.6%) [Last Month: (\$26K); (0.2%)]

Cause: Inclement weather and project -related delays in shipping waste delayed ERDF operations.

Resolution: Schedule recovery expected.

Cost:

River Corridor Restoration	FY02 EAC	BCWP	ACWP	Variance
River Corridor Restoration	\$K	\$K	\$K	\$K
RC01				
100 Area River Corridor Cleanup	70,875	41,450	40,180	1,270
RC02				
300 Area Cleanup	10,327	3,304	3,383	(79)
RC05				
River Corridor Waste Management	27,853	14,533	14,166	367
TOTAL River Corridor Restoration:	109,055	59,287	57,729	1,558

PBS-RC01 - 100 Area River Corridor Cleanup

Cost Variance = **\$1270K**; **3.1%** [Last Month: \$1118K; 3.2%]

Cause: Remediation labor, material, and sampling costs at 100 F and 100 B/C Areas lower than planned.

Resolution: BCP approved to excavate an additional 30,000 tons of soil in 100 B/C Area.

Cause: Herbicide application and 100 Area surveillance labor savings.

 $\textbf{Resolution:} \ \ \textbf{Underrun reflected in EAC}.$

PBS-RC02 - 300 Area Cleanup

Cost Variance = (\$79K); (2.4%) [Last Month: (\$74K); (2.7%)]

Cause: Overrun at 618-4 Burial Ground due to delays in subcontractor mobilization and preparation for the readiness review.

Resolution: Anticipated efficiencies are expected during remediation to offset the overrun. Overrun reflected in the EAC.

OUTCOME STATUS (COST/SCHEDULE) continued:

PBS-RC05 - River Corridor Waste Management

Cost Variance = **\$367K**; **2.5%** [Last Month: \$388K; 3.1%]

Cause: Lower driver and subcontract costs at ERDF due to elimination of planned overtime.

Resolution: Overtime and subcontract costs expected to increase in summer months to recover schedule slippage.

ISSUES (REGULATORY/EXTERNAL/DOE):

1	100 N Area Remediation: Results of residual radioactivity (RESRAD) modeling performed using borehole data for the 116-N-1 Crib and Trench indicate that the site will not attain groundwater Remedial Action Objectives (RAOs) following excavation. The results indicate that the lowest vadose zone layer contributes contaminants at levels above the RAOs. Status: A plan to identify the path forward for site closure is currently being developed.
INTEG	GRATION ACTIVITIES:
	BHI submitted the River Corridor Transition Plan, Rev. 0 (BHI-01619) to RL on April 25.

Section C - Central Plateau Transition

CP01 - 200 Area Remediation



Containment for B Plant Pre-Filter Changeout



Employing Work Securing Devices at 233-S



276-S-141 & 142 Hexone Tanks Interim Stabilization

SECTION C – CENTRAL PLATEAU TRANSITION

Data as of month-end April

ACCOMPLISHMENTS:

200 Area Remediation (CP01):

Central Plateau Remediation and Groundwater Monitoring Activities:

Borehole drilling was initiated at the 200-CW-5 Z-11 Ditch.

GPR surveys were completed for the 200-PW-1 pipeline vapor sampling, and spring startup of the 200-PW-1 active soil vapor extraction system was completed.

The public comment review period was completed on April 12 for the 200 Area Central Plateau *Tri-Party Agreement* change packages. The response to comments document is nearing completion.

The Fiscal Year 2001 Annual Summary Report for the 200-UP-1 and 200-ZP-1 Pump-and-Treat Operations was issued.

In the 200 Area, both groundwater pump and treat systems (200-UP-1 and 200-ZP-1) operated above the planned 90 percent availability levels in April, processing approximately 38.4 million liters of groundwater. Since system inception, these two pump and treat systems have processed approximately 2.4 billion liters of groundwater. Approximately 110 kilograms of carbon tetrachloride were removed by 200-ZP-1 in April. Approximately 6,495 kilograms of carbon tetrachloride have been removed by 200-ZP-1 to date. Approximately 582.2 million liters of groundwater have been transported to the ETF for processing since 200-UP-1 began operation. 343 million liters were previously processed prior to using the ETF.

233-S Plutonium Concentration Facility Decommissioning:

Process hood scaffold removal was completed. The SWB safety analysis report for packaging (SARP) was approved by RL. Two SWBs of TRU waste were shipped to the CWC and four burial boxes were shipped to ERDF. Removal of the nuclear criticality alarm system was also completed.

Central Plateau Surveillance and Maintenance (S&M) activities:

On April 8, the B Plant ventilation system was shut down and isolated to complete the changeout of the two HEPA pre-filters. A full dress mock-up with communication and remote radiation monitoring was conducted to refine the procedure and work practices. Extensive pre-job planning and mock-up training were credited for the significant ALARA reduction.

The REDOX, U03, and U Plant annual roof inspections were completed. The PUREX semi-annual roof inspection was also completed.

The Surveillance and Monitoring Control System (SAMCONS) upgrade at PUREX was completed. The system now has redundant computer operations.

The 200 Area asbestos abatement waste profiles were developed.

The scheduled annual reviews for emergency action plans were completed.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS):

TPA Milestone	Description	Due Date	(F)/(A) Date
M-13-26	Submit Plutonium/Organic-Rich Process Waste Group (200-PW-1) Work Plan	12/31/01	12/26/01 (A)
M-13-00L	Submit 3 200 NPL RI/FS (RFI/CMS) Work Plans	12/31/01	12/26/01 (A)
M-15-40A*	Complete U Pond/Z Ditches Cooling Water Group Field Work Through Sample Collection and Analysis	9/30/02	Proposed for deletion
M-15-42B*	Submit 200-TW-2 OU Draft A Remedial Investigation Report to Ecology	9/30/02	Proposed for deletion
M-15-41B*	Submit 200-TW-1 OU Draft A Remedial Investigation Report to EPA	10/30/02	10/30/02 (F)
M-13-00M*	Submit 3 200 NPL RI/FS (RFI/CMS) Work Plans	12/31/02	12/31/02 (F)
M-20-39*	Submit 216-S-10 Pond and Ditch Closure/Post Closure Plan to Ecology in Coordination with the Work Plan for the Chemical Sewer Group	2/28/03	11/30/05 (F)
M-15-38A*	Submit Draft A Gable Mountain Pond/B Pond and Ditch Cooling Water Group Feasibility Study and 216-B-3 Pond System RCRA TSD Unit Closure Plan and Submit Draft A Gable Mountain Pond/B Pond and Ditch Cooling Water Group Proposed Plan/Proposed RCRA Permit Modification	3/31/03	3/31/03 (F)

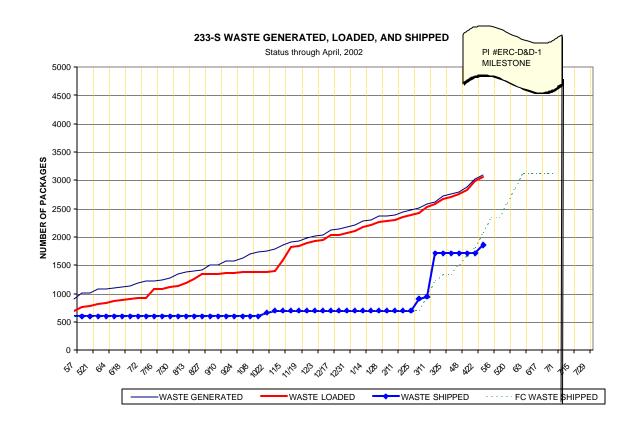
^{*}Milestones are addressed in the Central Plateau draft change packages that are expected to be approved by June 5.

PERFORMANCE OBJECTIVES:

GRE

PI	Task	Status
233-S Plutonium Concentration Facility Dismantlement: Disposition Surplus Building	Dismantle and remove 8 vessels from the 233-S Process Hood by 6/30/02. Dismantle and remove all remaining vessels from the 233-S Process Hood by 6/30/02. (Stretch)	Vessel removal was completed in March. Efficiency in extracting process vessels from the 233-S facility has enabled BHI to complete removal of all the vessels one year ahead of schedule. The original baseline called for removal of 8 vessels by June 30, 2002. In that timeframe, all 15 vessels within the facility were actually removed. Additionally, disposition of the vessels from the facility to an approved waste storage facility will be completed by the end of May 2002, 16 months ahead of the baseline schedule.

^{*}Multi-year PI developed in FY01.



PERFORMANCE MEASURES/METRICS:

Technology Deployment	PBS	Planned Date	(F)/(A) Date
Protean Gas Flow Proportional Counter	CP01		10/01 (A)**
ZipWall	CP01		11/01 (A)**
*Small-Diameter Geophysical Logging System Passive Neutron Logging Probe	CP01	3/31/02	2/02 (A)**
*Small-Diameter Geophysical Logging System Gamma Logging Probe	CP01	3/31/02	2/02 (A)**
Silicone Rubber Insulated Heaters	CP01		3/02 (A)**

^{*} ERC identified two technologies for Central Plateau Transition to be deployed during FY02.

STRETCH AND SUPERSTRETCH GOALS:

FY02 233-S Stretch Goals

GREEN

*Dismantle and remove all remaining vessels from the 233-S Process Hood by 6/30/02.

^{**}HQ IPABS was not updated with reconciliation data provided in January 2002. Therefore, IPABS will not show any deployments completed.

^{*}Multi-year PI developed in FY01.

OUTCOME STATUS (COST/SCHEDULE):

Schedule:

Central Plateau Transition	BCWS	BCWP	Variance
Central Flateau Transition	\$K	\$K	\$K
CP01 200 Area Remediation	19,972	18,828	(1,144)
TOTAL Central Plateau Transition:	19,972	18,828	(1,144)

PBS-CP01 - 200 Area Remediation

Schedule Variance = (\$1,144K); (5.7%) [Last Month: (\$854K); (5.0%)]

Cause: Process hood vessel waste disposal activities at 233-S facility D&D project behind schedule due to non-destructive assay (NDA) issues requiring new subcontract placement; late start on structural steel removal.

Resolution: New NDA subcontract signed and work commenced. First waste shipment to the CWC was delivered in March. A recovery schedule for structural steel removal has been implemented with full schedule recovery expected by June 30.

Cause: Behind schedule on U Pond Geoprobe® rod extractions and pipeline survey work due to rod extractions put on hold pending regulator direction to allow removal at time of remediation completion.

Resolution: Regulator direction was to remove Geoprobe[®] rods prior to site remediation. Extraction expected to be completed in May. Schedule recovery expected in June on pipeline characterization work.

Cost:

Central Plateau Transition	FY02 EAC	BCWP	ACWP	Variance
central Flateau Fransition	\$K	\$K	\$K	\$K
CP01 200 Area Remediation	24,957	18,828	17,399	1,429
TOTAL Central Plateau Transition:	24,957	18,828	17,399	1,429

PBS-CP01 - 200 Area Remediation

Cost Variance = **\$1429K**; **7.6%** [Last Month: \$1267; 7.9%]

Cause: D&D at 233-S facility performed with fewer craft resources.

Resolution: Underrun reflected in EAC.

Cause: Reduction in S&M survey frequency/requirements and reduced RARA equipment costs.

Resolution: Underrun reflected in EAC.

Cause: Technology deployment utilizing Geoprobe[®] instrumentation in lieu of installing drive casings at U Pond resulted in labor and contract savings.

Resolution: Underrun reflected in EAC.

ISSUES (REGULATORY/EXTERNAL/DOE):	
Central Waste Complex (CWC): Authorization Basis and Fire Hazards Analysis issues at CWC have caused CWC to temporarily restrict the receipt of waste. These restrictions are outside of BHI's control and may prevent shipment of waste from 233-S.	
Status: This issue has not yet caused an impact and CWC is accepting TRU waste from the 233-S project on a case-by-case basis.	
INTEGRATION ACTIVITIES:	
Central Plateau Transition Plan implementation continued with FH holding employee interviews from April 15 through April 24. Employment offers were sent April 29, with response required by May 10.	
Project and functional discussions and information exchange were ongoing. Property lists were reviewed and walkdowns started. Planning was initiated for the early June 3 transition of B Plant and PUREX.	

Section D - Site Integration & Infrastructure

SS03 - Groundwater Management & Monitoring SS04 - Groundwater/Vadose Zone Integration



Dual Wall Percussion Rig at Immobilized Low Activity Wall Drill Site (200 East Area)



Technical Staff Monitoring ISRM Injections in 100 D Area

Air Rotary Drilling in 200 Area



Conducting Contaminated Soil Sampling at 216-Z-11 Ditch Borehole



Construction of New 100 D Area Extraction Well

SECTION D – SITE INTEGRATION & INFRASTRUCTURE

Data as of month-end April

ACCOMPLISHMENTS:

Groundwater Management and Monitoring (\$\$03):

The DOE-Headquarters (HQ) Data Call Request for groundwater sampling and monitoring costs was completed.

The Resource Conservation and Recovery Act of 1976 (RCRA) quarterly report for October-December 2001 was transmitted to RL.

Groundwater (SS04):

Excavation of the field site was completed and final preparations began for the field experiment as part of the Vadose Zone Transport Field Study.

Measurements on samples from the B-BX-BY Tank Farm were completed at the Advanced Photon Source at Argonne National Laboratory (ANL) and Pacific Northwest National Laboratory (PNNL) to explain the distributions of uranium and strontium-90 in the vadose zone.

Workshops were held with the regulators to identify groundwater decisions and to discuss the coordination of groundwater monitoring requirements of the *Comprehensive Environmental Response, Compensation, and Liability Act of 1980* (CERCLA), RCRA, and *Atomic Energy Act* (AEA).

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS):

TPA Milestone	Description	Due Date	(F)/(A) Date
M-24-53	Install Two (2) Additional Wells at SST WMA TX-TY	12/31/01	11/8/01 (A)
M-24-54	Install One (1) Additional Well at SST WMA T	12/31/01	10/18/01 (A)
M-24-55	Install Two (2) Additional Wells at SST WMA S-SX	12/31/01	11/8/01 (A)
M-24-00M	Install RCRA Groundwater Monitoring Wells at Rate of Up to 50 in Calendar Year 2001 if Required	12/31/01	11/8/01 (A)
M-24-00N*	Install RCRA Groundwater Monitoring Wells at Rate of Up to 50 in Calendar Year 2002 if Required	12/31/02	*

^{*}Currently being negotiated under C3T process.

PERFORMANCE OBJECTIVES:

None planned in FY02.

PERFORMANCE MEASURES/METRICS:

ERC identified one technology for Site Integration and Infrastructure to be deployed during FY02.

Technology Deployment	PBS	Planned Date	(F)/(A) Date
Advanced Tensiometer	SS04	3/31/02	9/30/02 (F)

STRETCH AND SUPERSTRETCH GOALS:

None planned in FY02.

OUTCOME STATUS (COST/SCHEDULE):

Schedule:

Site Integration & Infrastructure	BCWS	BCWP	Variance
	\$K	\$K	\$K
SS03 – Groundwater Management & Monitoring	9,444	8,968	(476)
SS04 - Groundwater/Vadose Zone Integration	5,925	5,268	(657)
TOTAL Site Integration & Infrastructure:	15,369	14,236	(1,133)

PBS-SS03 - Groundwater Management and Monitoring

Schedule Variance = (\$476K); (5.0%) [Last Month: (\$241K); (3.0%)]

Cause: PNNL groundwater modeling and monitoring behind schedule due to late computer hardware/software purchase and awaiting outcome of C3T groundwater strategy.

Resolution: Schedule recovery expected.

PBS-SS04 - Groundwater/Vadose Zone Integration

Schedule Variance = (\$657K); (11.1%) [Last Month: (\$428K); (9.1%)]

Cause: Late arrival of SAC computer system; delays in assembly and testing of hardware.

Resolution: SAC computer system arrived in February; modeling runs are proceeding and taking less time than expected with full schedule recovery expected.

Cause: S&T behind schedule due to staff availability and subcontract negotiations.

Resolution: Additional resources have been added to complete task and subcontract negotiations have been completed.

OUTCOME STATUS (COST/SCHEDULE) continued:

Cost:

Site Integration & Infrastructure	FY02 EAC	BCWP	ACWP	Variance
	\$K	\$K	\$K	\$K
SS03 – Groundwater Management & Monitoring	12,187	8,968	8,585	383
SS04 - Groundwater/Vadose Zone Integration	7,616	5,268	5,061	207
TOTAL Site Integration & Infrastructure:	19,803	14,236	13,646	590

PBS-SS03 - Groundwater Management and Monitoring

Cost Variance = **\$383K**; **4.3%** [Last Month: \$372K; 4.8%]

Cause: Underrun in PNNL data evaluation and support activities.

Resolution: Increase in sampling analysis costs expected during summer.

PBS-SS04 - Groundwater/Vadose Zone Integration

Cost Variance = **\$207K**; **3.9%** [Last Month: \$169K; 3.9%]

Cause: Less effort required in development of Virtual Library components and assembly of SAC

computer.

Resolution: Underrun reflected in EAC.

ISSUES (REGULATORY/EXTERNAL/DOE):

None identified at this time.

INTEGRATION ACTIVITIES:

Central Plateau Transition Plan implementation continued with FH holding employee interviews from April 15 through April 24. Employment offers were sent April 29, with response required by May 10.

Project and functional discussions and information exchange were ongoing. Property lists were reviewed and walkdowns started.